

**METHOD FOR PRODUCING FLUORESCENT SUBSTANCE,  
FLUORESCENT SUBSTANCE PRODUCED BY THE METHOD, AND  
DEVICE, ELECTRONIC INSTRUMENT AND FLUORESCENT  
SUBSTANCE-CONTAINING ARTICLE USING THE FLUORESCENT  
SUBSTANCE**

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**Abstract**

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**PROBLEM TO BE SOLVED:** To provide a method for producing a fluorescent substance capable of efficiently producing a fluorescent substance having objective particle diameters.

**SOLUTION:** A fluorescent substance 1 having an objective particle diameter is obtained as follows: a starting material for fluorescent substance comprising an adhered-substance raw material 4, which is to form an adhered substance 2, and a small-granular raw material 3, which is to form the fluorescent substance 1, is mixed; the mixed starting material for fluorescent substance is subjected to a reaction to form a fluorescent substance 1 having a state where the fluorescent substance 1 is attached on an formed adhered substance 2; the attached fluorescent substance 1 is peeled from the adhered substance 2; and subsequently, the peeled fluorescent substance 1 is separated from the adhered substance 2 to obtain the fluorescent substance 1 having objective particle diameters.  $\alpha$ -Alumina single crystals having substantially no crushed surface are preferable as the small-granular raw material 3, and the central particle diameter preferably ranges from 0.1 to 20  $\mu$ m. The central particle diameter of the adhered substance 2 is preferably larger than the central particle diameter of the attached fluorescent substance 1, and is 50  $\mu$ m or less.

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